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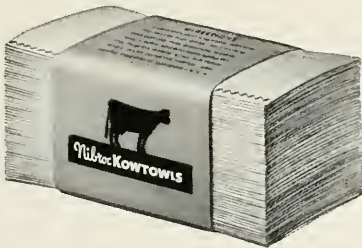
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Editorial

GLEANER COMPETES

For the first time since it became a full-size college publication, the GLEANER will be judged competitively with other magazines. We have entered the twenty-eighth Annual Newspaper-Magazine Contest of the Columbia Scholastic Press Association.

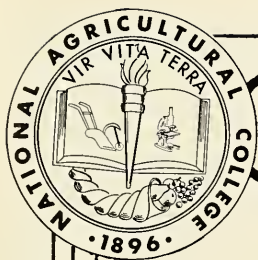
Publications entered in the contest are classified according to the type and size of school, kind of publication, and method of production and are judged accordingly. This information is contained in the self-analysis section of the entry form and is constantly referred to by the Board of Judges. The publications are rated on the basis of the level of accomplishment as indicated by the issues at hand. Magazine editors were required to submit two copies of each issue from the first issue after Easter, 1951, through January, 1952. The official judging began in early February, and the announcement of placings will be made during the annual convention in March.

The results will give us a clear understanding of our position as compared to other publications produced under approximately the same conditions.

In addition to the competitive element, the contest will prove to be of value because of the individual constructive criticism offered in the booklet of results given to each publication after the contest. We also feel that the college itself will benefit from this type of endeavor regardless of our final standing.

AG JOURNALISM

In view of the above logic, it seems obvious that our magazine and the student body would profit by the innovation of Agricultural Journalism Courses in our curriculum. Not only would it broaden our scope, and teach us better techniques, and thus enable us to produce a better GLEANER, but it would definitely prove to be of value to any student here, regardless of major. Also there are numerous jobs available with public relations departments of large companies as well as with various magazines for the graduates with this type of training. The college would again benefit by being able to offer a wider range of courses and by increasing the number of job potentialities for future graduates.



THE GLEANER

NATIONAL AGRICULTURAL COLLEGE
Farm School, Bucks County, Pennsylvania

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PAST, PRESENT, AND FUTURE

BY MORTON LEVINSON '54

Many interesting facts and subjects are recorded in an overall report published by the National Agricultural College last year. In this article I shall try to clarify and illuminate that data which is of interest to you, the members of the student body.

The National Farm School founded by Rabbi Joseph Krauskopf in 1896 with the purchase of a hundred acre farm, the construction of a small classroom building, a faculty of two, and a student body of six, to develop character, tolerance, and to provide an agricultural education for any boy regardless of his economic circumstances.

Fifty years after the founding of the school, the State Council of Education approved the new organization and curriculum of the school and the school was renamed The National Farm School and Junior College. The last class of The National Farm School was graduated on March 6, 1947, and a new chapter was begun in the life of the fifty-five-year-old institution.

Several months after the school received its charter as a Junior College, the board of trustees and the administration realized the need for the school to offer courses in liberal arts and in the humanities. The Junior College was then extended to the Senior College level, being approved by the State Council of Education on June 7, 1948.

With the rise of the institution to the rank of a senior college, a faculty had to be engaged of men qualified to teach on the college level with both a practical and a theoretical background. The administration encourages all members of the faculty to continue their education until they receive their doctorate degrees.

Fifty per cent of the faculty having Master degrees are at present working on their doctorate, and eighty per cent of those members of the faculty with bachelor degrees are now working toward their master's degrees. A program of this type keeps the faculty constantly exposed to the new trends in education and at the same time the stu-

dent body benefits from the additional knowledge and theory that the professor is experiencing in his graduate courses. Students should take note of this program and conscientiously strive to better themselves with the progressive trend of the faculty.

The extra-curricular program the college student body is engaged in is a very vigorous one, and one that will compare favorably with the similar program in any other agricultural college in the country.

One of the best methods a college may take to publicize itself and its academic standing is by its ranking in intercollegiate competition in the various poultry and livestock judging contests. The year 1948 was the first year our Poultry Judging team competed in the Eastern Intercollegiate Poultry Judging Contest at Rutgers. Each year the team has raised itself in the standings, ranking sixth in 1948, fourth in 1949, and second in 1950, and this year we feel that the Class of 1954 Judging Team is going to bring home the first prize. Our animal and dairy judging teams have proven themselves and in future competition we know that the National Agricultural College pennant is going to wave on high.

The members of the Animal Husbandry and Dairy Clubs have groomed and trained the horses and dairy animals for the Farm Show at Harrisburg and in last January's show our Percherons brought home some twelve ribbons to the campus.

Our Ornamental Horticulture exhibit at the 1950 Philadelphia Flower Show placed first among the Garden Terrace exhibits.

Many students have membership in more than one of the student clubs and perhaps this helps to explain the fine spirit with which the students present the annual "A" day in the first week of May. "A" day will be held this year for the fourth time; each succeeding year more and more spectators come to witness the extensive activities of the boys at N.A.C. Crowds in the past years have

numbered in the thousands and with the future growth of the school, "A" day will attract many more thousands.

Although most of the student body is composed of boys from Pennsylvania, sixteen other states are represented and we have foreign students from Israel, Iran, and some of the Latin American countries.

In direct line with the college's program of practical as well as theoretical training the agricultural departments maintain their own production on a commercial level.

The Department of General Agriculture has some 660 acres under cultivation and this department is responsible for the production of general field crops, which are for the most part transferred to the other departments of the college at their market value.

The Dairy and Animal Husbandry Departments operate the dairy plant with a herd of ninety-five cows, and the creamery. Some 150 acres of pasture are available to this department which also cares for the varied assortment of livestock used in our practicum program.

The Horticultural Department maintains ten acres of apple orchards and twenty acres of peach orchards for both practical and commercial purposes. There are five acres under cultivation with small fruits and berries, while a fairly large acreage is devoted to sweet corn and other vegetables.

The Ornamental Horticulture Department maintains the greenhouses and the nurseries, as well as the intensified task of caring for the campus grounds.

The Poultry Department operates our commercial plant, including the ranges and the hatchery, and maintains forty-five hundred layers and annually produces several thousand broilers.

Any institution of higher learning has to strive constantly for future improvements and it must continually strive for physical and educational advancement. An impressive program has been outlined by our college president, James Work, as steps in the N.A.C. stairway

(Continued on page 18)



A converted war surplus Stearman B.T. 17 dusting tomatoes on the Storkey Farm at Morrisville, Pa.

AIR-BORNE AGRICULTURE

By ED VANSANT '53

Of the many modern machines employed in agriculture, the new role of the airplane is fast becoming one of the most important. For it is being used in feeding, fertilizing, defoliation, and weed, insect, and disease control.

In such operations as weed, insect and disease control, two types of rigs are used, depending on whether dusting or spraying is desired. In spraying, the plane is equipped with a tank and in dusting, a hopper is used. The capacity of the spray tank is 100 to 150 gal. of liquid. A boom located on the underside, which runs the entire length of the wing with a series of nozzles one foot apart, insures even coverage. The nozzles point directly ahead and the force of the atmosphere as the plane is in motion disperses into a very fine spray the liquid which is pumped at a pressure of 150 lbs.

At the present time, airplane spraying is used mostly on tall leafy plants such as corn and blueberries because dusting is not as thorough in its coverage of the lower part of the plant. I have noticed on corn that the spray rolls down past the upper leaves and the circulating mist also settles on the under side where, as in dusting, the coverage is concentrated mostly in the upper part with scantness down between the rows. Spraying is also becoming more prevalent because ideal weather conditions need not be present. However, spraying should not be done on days when the sun's heat is intense.

The hopper type rig has proven very successful, with a capacity of 700 to 900 lb. of material. It has been used on spinach when cyanamide is employed.

In addition to destroying weeds, it provides the plants with available nitrogen during the important period of early spring. Then too, its success in seeding and fertilizing must be considered.

It has proven beneficial for soil conservation work in state forests, and for seeding domestic rye grass as a cover crop. For horticultural growers, it can be used in top dressing with such fertilizers as granulated sodium nitrate. This past summer I had an opportunity to use this practice successfully on tomatoes after the second picking. About 50 lb. per acre was applied; the operation resembled a light snow flurry. Incidentally, the fertilizer does not burn the leaves since it is granulated and rolls off the leaves to the ground.

Some doubt as to using the airplane for insect and disease control is prevalent today. The most discussed objection is uneven application. This is contended because the dust comes out of the hopper through a gate 2 to 2½ ft. wide. It would seem that application would not be uniform but the prop wash spreads it on evenly to 20 to 30 ft. depending on the altitude of the ship; also, variable types of fins placed below the gate cause the dust to fan out.

Now that you are somewhat familiar with the principles and uses of the airplane in agriculture you should be exposed to some of the advantages and disadvantages. The advantages are as follows: (1) there is no damage to the plants; (2) it saves time; (3) the cost is reasonable, from \$2.00 to \$3.00 per acre (usually \$2.00); (4) the ground does not have to be solid before dusting; (5) you get no ground compaction. A

possible disadvantage is the danger of the dust or spray's drifting to adjoining fields or pastures, killing or damaging the plants or animals there. But there is danger of drifting with ground equipment also.

In conclusion, let us consider hiring a crop duster or sprayer. First of all, there are very few dusts that cannot be used. For example, sulphur dust is dangerous because on a hot day there is danger of the dusts igniting from friction. It has been used and probably will be used in the future, but if a substitute is available use it for safety's sake. Another point is the price, which is usually based on the acre. It ranges from \$2.00 to \$3.00 with about a \$15.00 minimum, making it fairly reasonable considering the advantages.

Taking everything into consideration, I think that there should be no or little doubt in your mind about the economy of crop dusting. And if there is, see your local crop duster and sprayer and discuss it further with him.

I also think that there now should be little doubt concerning the practicality of air-borne agriculture. The effects of feeding, fertilizing, defoliating, spraying and dusting from the air that are considered harmful by some people, have been pointed out, as well as the many benefits to be gained by using the airplane in agriculture.

In my mind these benefits far overshadow the disadvantages, and I am sure that after weighing the pro and con arguments, you too will be of this opinion. It is also hoped that you now realize the importance of the airplane in modern American agriculture.

WHY WORK FOR A LIVING?

BY HENRY KALTENTHALER '52

Many times we hear a person say, "I'm going to buy myself a piece of land so that if I lose my job I'll at least be able to live off the land." While it is true that if he managed to find a good piece of land and met with favorable climatic conditions he could keep himself in vegetables and some meat, we feel that this is not truly "living off the land." In our opinion, in order to "live off the land" in the true sense one should do no more than reap Nature's bountiful harvest without having to worry about weeding or any other of the problems of agriculture.

In order to be able to do this an individual must be a bit of a naturalist as well as a woodsman. The naturalist in him will take care of the collection and identification while the woodsman will take over in the preparation of native material, as well as the trapping and killing of animals.

Even the most primitive of tribes in the world, with a few rare exceptions, do not truly "live off the land" but rather practice a primitive form of agriculture with a diet which is supplemented by the products of the land.

All food, wild or cultivated, may be classified into one or more groups according to the amount of various nutrients they supply. The chief classes in which we are interested are proteins, carbohydrates and fats, since the vitamins and minerals take care of themselves in a natural diet. Proteins are the chief food components since they keep up the body tissues while fats and carbohydrates are merely high energy sources.

Of the protenaceous foods the plant materials which supply the greatest percentage are the nuts and mature seeds. Usually the more oily this source of protein, the higher the protein percentage with the butternut having about the highest. However, nearly all nuts have from fifteen to twenty-five percent protein. These embryo plants are also very high in fats with up to seventy percent being found in hickory nuts.

All of these mature seeds have a very small moisture content (only five to ten percent) and for this reason they supply more energy, pound for pound, than any other source of food save for some of the concentrated sugars. For a fine source of carbohydrates subterreanean

portions of many plants, if properly prepared, will furnish a high quality flour or potato substitute.

However, since "man cannot live by bread alone" it seems only proper to include such foods as the greens and fruits which are fine sources of variety and any vitamins or minerals which might be lacking in the basic diet. Many of the plants which make excellent wild greens are merely plants which have been introduced and naturalized in parts of the country and are even weeds in the cultivated lands.

The fruits are so legion that it seems senseless to try to give any list of them other than to say that in this area from about June until frost some plant is maturing seed in an enlarged ovary wall and any one with good eyesight can nearly always find some fruit in this period.

In addition to the foods mentioned above, modern man likes some source of sweetening and something other than water to drink. For sweetening, man has a choice of two wild sources. The first, and in many ways more desirable source, is the boiled down sap of trees such as the maples. The other wild and much better tasting source is honey. The disadvantages here are obvious; one first must find a wild hive and then he must be prepared to brave the flying hypodermic needles. However, the reward is usually well worth it since one robbing expedition will usually supply the hunter with sweets for a year at least.

Only a few of the wild plants suitable for food will be included since the source of food will depend on the abundance of plants in a given area. For instance, if only a few plants of wild rice (a grain of food) are available one will rarely harvest it.

Many of the forest trees of the United States produce nuts of some sort and all of these are more or less edible. Some, such as walnuts, hickory nuts, chestnuts and beechnuts may be eaten raw but are improved by some roasting. Others, such as the acorns, require that undesirable chemicals such as rannic acid be leached out by a process of roasting, grinding and washing before becoming

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The author examining the roots of a cot-tail, which make an excellent substitute for potatoes.

BUILD YOUR OWN GREENHOUSE

By ROBERT G. WEBER '52

My ambition in life was always to own a greenhouse of my own. From the first time I worked in a greenhouse until I could gather together the money needed, I set a goal of building my own greenhouse, even a very small one. I hope that you potential greenhouse builders will benefit from my experiences.

Since I was only a sophomore here at N.A.C. when I decided to build, and did not have the course in Greenhouse Construction offered to seniors, I consulted all available library books, wholesale catalogues, and the advice of the members of our Horticulture Department.

From my gained knowledge, I realized that if I could obtain used greenhouse material, I could build my own greenhouse for one quarter the price of a factory pre-cut greenhouse. I wrote to all the greenhouse wreckers advertised in trade magazines for prices and compared them. By using my own labor and not charging for it, I could do the job in my spare time and build a greenhouse of my own design.

The next problem confronting me was the location of the house. I live in an industrial section of a large town. The way my home is situated on our lot decided the position of the greenhouse, north and south. After this was settled, I drew up plans and had an agricultural engineer determine the safety factor of the structure for me. I then had the plan blue printed and presented it to the local building inspector. He checked the blueprint with a fine tooth comb and said that to conform with local codes I would have to leave three feet on each side from the next property line. I told him that the house would be erected for five hundred dollars and he issued me a permit.

On the first day of the Easter vacation I obtained a level and set up batter boards to lay out a foundation of thirty feet, seven inches by fourteen feet. My brother and I dug all the trenches one foot wide by three feet deep. We mixed our own concrete and poured all the footings. We then obtained two hun-



The 30'7" by 14' pipe frame greenhouse constructed by the author.

dred cinder blocks of eight-inch size and built a three foot wall on the footings, leaving only an opening in the north end for the door.

The next operation was to obtain red cedar two-by-fours to shape and mold into the main frame. All material was bolted fast to the side walls and supported by purlin posts in the center. I next obtained all my used building material from a greenhouse wrecker in Newark, New Jersey. The material had just been removed from an estate in Long Island. The wrecker suggested that I cut two guides the width of the glass and set one on top and one on the bottom. By doing this I would obtain equal glass widths.

After trucking the material home, we scraped, chipped, and painted it during our spare time. Then the proper length from eave to ridge was measured and the correct pitch angle was cut on the ends of the sash bars. These were then nailed into place. The sash bars were then cut and positioned with the roof bars. The next operation, which took approximately two months of my spare time, was glazing the house. All the glass was cut the proper width, not of the same length. After breaking more than a box

of glass, we completed the glazing. The ventilators were next fastened into place and work moved inside. Purlins and purlin posts were anchored in place and the frame became rigid. After all the loose putty was scraped off, two more coats of paint were applied inside and out.

The ground was then leveled off inside and covered with sand; we then decided to install three benches, two side and a large center one. After this was done, I obtained a greenhouse door. My greenhouse, now just about complete, lacks ventilation machinery and a heating system.

When I calculated the total cost of the greenhouse I found that it had come to less than four hundred and fifty dollars. I have now operated this house successfully during two spring seasons.

My building experience gave me both knowledge and self-satisfaction. Since then, however, I have taken the course in greenhouse construction and have discovered the mistakes I've made, including that of constructing the concrete walls first. But the proof of the pudding is in the storm we had a year ago last November: my greenhouse came through unscratched.



Cauch Lanson's charges: Joe Birk, Bob Rubin, Sam Malove and Mr. Lanson (left to right).

Poultry Judges

SCORE AT NEW YORK

By GEORGE BLEIBTREU '52

All heads turned to the door and all faces registered approval of the seven handsome, well dressed young men who entered the lobby of the mid-East side hotel in New York on a wet and drizzly Wednesday evening. The lobby loafers may not have been aware of it, but they were viewing the arrival of the pride of N.A.C.'s poultry department.

Sophomores Bob Rubin, Steve Ferdo and Joe Birk, along with junior Sam Malove and Professor Raino Lanson, had come to the big city to compete in the Twenty-eighth Eastern Inter-collegiate Poultry Judging Contest which was to take place in Grand Central Palace nearby in conjunction, for the first time, with the Greater New York Allied Poultry Industry Exposition. Juniors Chuck Dahlstrom and Joe Chernicoff, president and secretary, respectively, of the N.A.C. Poultry Club, the "big men" on the trip, had come along as the club's representatives to a meeting of the National Collegiate Poultry Science Club, of which Joe is the recently-elected National Secretary.

The boys proceeded to their sumptuous suite and were pleased to find that the Hotel Shelton had not only supplied them with thick rugs, soft beds and private bath, but that they had a television set all their own. Unfortunately, we might add, Professor Lanson in his single room was far less lucky. Even N.A.C. students could barely keep from

gloating when they saw this, but poultry men are above such feelings. Most of the group settled down for a quiet evening, but three adventurous spirits couldn't resist the lure of Manhattan's fleshpots and vanished into the dripping wilds of Lexington Avenue.

After viewing a double-feature Western, our wandering "hicks" returned to the hotel and turned in for a good nights sleep.

How necessary this was, the boys found out the next morning. Mr. Harvey C. Wood, secretary of Limestone Products Corporation, sponsors of the show, took them and delegations from the other eight schools on a grueling tour of the New York poultry marketing centers around the 14th street area. Our boys were particularly impressed by the fine quality of the pheasants and Long Island ducklings coming in. They were amazed at the fabulous prices paid by big hotels for fancy game-birds and at the enormous ultra modern freezer lockers.

Thursday afternoon was taken up by the meeting of the National Intercollegiate Poultry Science Club in the Pompeii Room of the Shelton. Secretary Chernicoff took charge so efficiently that our men heard favorable comments from all sides on a well run meeting. That night, the team hit the books for some last-minute studying and on Friday morning things got down to business.

At eight A.M. the nine teams met for the written test in the hotel. This test, one hour in duration, tested the men on their familiarity with the Standard of Perfection. Steve Ferdo did so well that he got a second-place prize, tying with two Cornell men and keeping that team from making a clean sweep of winners. At nine, all hands proceeded to Grand Central Palace for the actual judging competition. This included classes of White Leghorn, White Rock, New Hampshire and Rhode Island Red Pullets, hens and cockerels.

The boys were at it from nine in the morning till three-thirty in the afternoon, which may explain why alternate judge Joe Birk became the hero of the hour when he returned from a foraging expedition with sandwiches and coffee to reinforce the N.A.C. stalwarts.

After the contest, our weary warriors trudged back to their hotel to spruce up for the final dinner. The event took place in the English Room of the Prince George Hotel, which the boys reached after wading through a lobby full of skiers. Life became worth living again when uniformed waiters started serving broiled brook trout, oysters and fresh ham. A thoughtful management omitted all poultry products from the menu.

After dinner, Professor Lanson as master of ceremonies, introduced the coaches of each team, who in turn introduced their team members to the group. Mr. Harvey C. Wood presented a short talk and then introduced Dr. Thompson of Rutgers University who announced the results of the day's judging and presented the loving cups to the top three teams. The teams placed as follows:

Cornell, 3300 points
Maryland, 3094 points
Delaware, 3004 points
N.A.C., 2994 points
Rhode Island, 2906
Rutgers, 2870 points
Penn State, 2796 points
West Virginia, 2790 points
New Hampshire, 2730 points

Bob Rubin was high scorer for N.A.C. and got a cash prize for placing seventh out of twenty-seven men. All the boys enjoyed the trip and got plenty of valuable experience.

N.A.C. PERCHERONS WIN AT FARM SHOW

"Bucky" Emerges as Grand Champion Stallion

By NORMAN SHAYER '52

On January 14-18th the Annual Pennsylvania Farm Show was held at Harrisburg. The contingent from N.A.C. led by Mr. Harry Hopkins, instructor in Animal Husbandry made an excellent showing with our draft horses. They brought home ten ribbons, a reserve grand-champion rosette and a grand champion banner. This was the result of hours of tedious work of preparation, and the excellent leadership of Mr. Hopkins. However the story of this fame brought to our college had its beginnings a long time before.

About the beginning of December, Frank La Rosa and O. M. Vicals volunteered their services to assist Mr. Hopkins in fitting the horses for the show. Everyday at four o'clock these men could be seen going to the home barn to wash, curry, and brush the six animals. They were even so gracious as to give up their Christmas vacation so that the animals could be prepared to the best of their ability. They really had the animals looking in "show shape" at the time of departure for Harrisburg on Friday, January 10th.

A baggage car built as a special horse car for the animals was at the railroad

siding at the college and the men prepared it before loading the animals. They spread bedding, stacked hay, had barrels of water to haul in, and took bags of grain aboard. The men accompanied the horses on the trip which was long and drawn out; they did not reach Harrisburg until three-thirty the following day. It was a difficult and shaky job feeding and watering the horses on the moving train. I was also informed that it was a cold night and the men were quite hungry, for there was little opportunity to obtain cuisine of any palatable proportions.

The car was brought to a siding right next to the barn to which our horses were assigned. The horses were unloaded and bedded down, and the fellows went to get some food. Continual cleaning and grooming were the order of the day until the hour of showing arrived.

Monday afternoon, the Gelding Class was judged. We had one entry in our fine gelding, Bud. The horse did not come in the money; however we were not last.

Tuesday was the big day, for all our other horses were to be shown. The men arose at 5 A.M. and were nervously

preparing the horses for the showing, giving especial attention to the legs and feet.

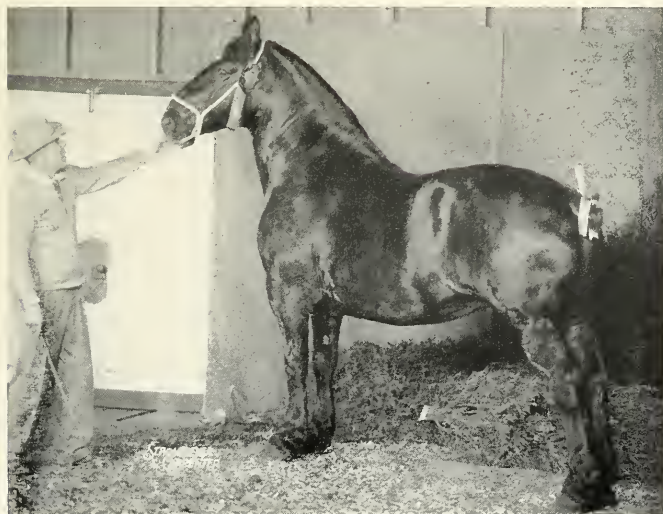
The first class was the Aged Stallion Class, five years and over. Our fine herd sire, Crebillys Buccaneer, won this class. He then went on to win the Senior Champion and then Grand Champion. Next came the aged mares, in which we had four entries, Rush Vally Kallian, who stood first in her class, Konhope who stood sixth, Konhope III who stood sixth, and Carolette who stood 11th. Two more ribbons were added to our collection.

Then our Kallian was judged in a Senior Champion Class and stood in the reserve position. She was also judged in the Grand Champion Class and stood in reserve there also. One more ribbon and a rosette came our way.

Group judging was a Get of Sire Class in which we had two entries. "Bucky," our Grand Champion Sire combined with Bonny Lee, both by Koncarcalyps II and we stood first. Our other entry in this class was Konhope and Konhope III by Koncarcalyps and they stood fifth. In this class we picked up two more ribbons. Another group class was Produce of Mare, a class for two horses out of one mare. Our entry was Konhope and Konhope III, full sisters out of Carnona IV Hope and we placed 4th in this class. Another ribbon was added to our growing collection.

Still another group class was the Stallion and Two Mares class. Crebillys Buccaneer, Kallian, and Konhope had little trouble in taking first place. The last class we appeared in was for two mares belonging to one exhibitor. We put in two group entries, Kallian and Konhope, who stood second and Konhope III and Carolette, who stood eighth. Our last ribbon was won here.

Much credit for this wonderful showing is due Mr. Hopkins for his capable guidance and O. M. Vicals and Frank La Rosa for their hard and earnest work. Without their competent efforts this fine chapter in the history of our college could never have been written.



N.A.C.'s Kallian, Reserve Grand Champion Mare at Harrisburg



What's New with the Alumni

By JOE CHERNICOFF '53

Well, here we are back again after a short absence, and we're rarin' to go.

I see that Bob Barg is now working for the government in South Carolina, at a place called Parris Island. In a letter, Bob had some advice for all the men who might be "working" in the same capacity: "Stay at dear old N.A.C." Anyone wishing to cheer Bob up can do so by sending him a letter or two; his address is Pvt. Robert W. Barg, Plt. 568 G Co. 2nd Rec. Tr. Bn. M.C.R.D. Parris Island, South Carolina.

Joe Voschin '50, is still working with the Soil Conservation Service and has recently married — don't know who the lucky gal is though.

It was nice to hear that one of Joe's classmates, Don "Doc" Christian and Miss Kitty Link of Reading, Pa., have announced their engagement. Doc is working in a florist shop in Reading — he does a lot of "make-up" work: corsages, floral arrangements, etc., and likes the work very much.

We have received a few letters from you alumni, but still not enough. Just a line or two of news in a letter or postal card is sufficient — let us know what you are doing.

Harold Hafrel is now a government poultry inspector for the Campbell Soup Co. at Camden. That's what you call a real chicken inspector, hey?

At a New Year's party, I met a guy who is stationed at Sampson Air Force Base, New York. He told me there was a fellow in his barracks who graduated from N.A.C. last year — it turned out to be Morty Weingarten '51. It seems that Morty is a veterinary apprentice — what a life!

It seems to me that the way of all Aggies, good or bad (who ever heard of a bad Aggie?) is to end up as one of Uncle Sam's boy's — our editor, Carl Leutner, received a letter from Paul Stein '51 (Pvt. Paul Stein 11235568; FH738-3668 sqdn. Sampson A.F. Base, N.Y.) He likes the idea of free copies being sent out to service men and thinks that this year's GLEANER is pretty — good (thanks). He's a neighbor of Morty Weingarten — they ought to

start an alumni chapter up there.

More addresses of our boys in service are being printed — so how about writing to them?

Dave Brooks and Bruce Smith are working together at Searles Lake, California, for the American Potash & Chemical Co. This lake is located in the Mojave Desert about 70 miles from Death Valley. The boys are working as 2nd classmen and are working with LiCO₃. Bruce was working in the control lab, testing samples. For recreation they sometimes inspect abandoned gold

and tungsten mines which are in that vicinity.

Saul Goldfarb, who was working for the Hy-Line Hatcheries in Doylestown, is now at the Sampson A.F.B. His address is Pvt. Saul Goldfarb. A.F. 1343 920; 3676 Tng. Sq. — Flt. 1261, Sampson AFB, Sampson, New York.

In the last "What's New," we mentioned that Alex Greenblatt was at Indiantown Gap, but we didn't have his address; it's Pvt. Alex Greenblatt U.S. 51118640, Co. E 2nd inf. Div. Indian-

(Continued on page 16)

THE PARROT'S CAGE

By P.G.R. '52



Well, it's finally happened, and right under my nest — Dick Ilsemann, young gay blade of N.A.C. and Syracuse, committed social suicide by getting engaged to a very cute pigeon, Betty Smith of Kennett Square, Pa. Lots of parrot ruffles to you both, roommate.

Everybody seems to be behind the basketball team this year. Okerlund and Marini have been going hoarse between games. Second row, second section is reserved for these standout supporters, so stay clear, but see that you're at the games. I'm sure everyone wishes Cal Kidder a speedy recovery, and the rest of the team a successful season.

Say, did you see Ed Neiznay with his Ambler Harem at the ball game? I've noticed Russ Plummer and Irv Breber have become full fledged Iroquois. Harry Conover seems to be propagating quite a friendship at N.J.C., as is Lee Harvey at Abington Hospital.

I've heard that Danny "Water Pistils" Franchetti say that there's a rumor that Bob Rubin is moving to the first floor. Sam Malove, who is Sonia, and what connection has she with brushing your teeth?

It seems that seven freshmen were

held up while inspecting a haunted house. I've noticed Art Force still seems to have the shakes from it.

It's come my way that Marty Chernenk has found something more interesting at Ed's than the food. Ivar Holmberg went all the way out to Akron to see a certain girl during vacation between semesters. Pete Krusch and date seemed to have had a little auto trouble at Bear Mt. a few weekends ago, in fact Pete's dad had to tow him back at 1 A.M. Hm. Hm!!! Oh well, let's leave it at that.

For anyone looking for a ride to Phila., Poley and Brooks are running a shuttle service to 5th and Spruce. Oh yes, Dick Sowierski would like to know if anyone received his call. Late, Late, Flush! Walt Rubin just got engaged, congratulations. Also happy 21, Doug.

Well, that's it from my perch in the Elson Hall Lavatory; I hear somebody hollering they've got more important

(continued on page 13)

SPORTS SCENE

Football Banquet a Success — Basketeers Open Victoriously

By MIKE AIELLO '53 & DON PETERS '53

FOOTBALL BANQUET

On Dec. 13th a great tribute was paid to our football team and coaching staff, with the holding of a banquet at Shoyer's Restaurant in Philadelphia.

After a delicious roast beef dinner, during which thirty-three hungry athletes really went to work, the men gathered around for the customary speech making and presentation of awards.

Mr. Phil Spevak '30 introduced the toastmaster, Mr. Sidney Brunwasser '20, who with his sparkling humor kept the men in good spirits all evening.

The first speaker, Dean Meyer, spoke on the fighting spirit of the team. In fact, that seemed to be the theme of the evening.

Coach Keys next gave each qualifying man his "N.A.C." and silver pocket-sized football. Special team awards were presented to Bob Holland for outstanding leadership, Danny Franchetti for his outstanding backfield ability and John Guisti for being the outstanding lineman. The honor bestowed upon Franchetti was further tribute to Danny's gridiron feats since he had already been named a member of the "All State" Football Team and rated 90th in the country in yards gained rushing.

Guisti, in addition to the outstanding lineman award, received from his teammates a sweater for his all-around spirit and sportmanship. The next speakers were State Senator Harry Shapiro, and Dr. Spencer A. Kaufman, who elaborated on the fine type of men football could help mould.

The next three speakers were more closely associated with sports. David Zinkoff, who is manager of the Harlem Globetrotters, gave some "inside dope" on how the giant Globetrotters performed almost feats of magic to get the ball through the hoop.

The next speakers were warmly greeted by all Philadelphia Eagle fans: Walt "Piggy" Barnes and Johnny Green, two fine ballplayers. President Work, who had to leave before the speech-making, was represented by Mr. Fred Weigle. Mr. Weigle, who was a team mate of President Work when they were stu-



Frank LaRosa (left), and "Buz" Okerlund shown with Dan Franchetti (center), winner of their "Best Back of the Year" Award.

dents at N.F.S., is a prominent local agriculturalist and a member of the College Board of Trustees. Delivering the President's message he paid the greatest tribute to the team when he stated that this was the best squad in the history of the Junior College and College. He stressed the point that we took on opponents with much larger enrollments than our own, but never once did the boys let up.

To close the ceremonies the alumni sang, "The Green and the Gold" while our boys sang the College "Alma Mater".

Again let us say to the squad and coaches, "Nice going, boys."

N. A. C. vs. GOLDEY-BEACON

Coach Charlie Keys' N.A.C. quintet opened the basketball season, on January 9, on the same court with a 61-35 victory over the Goldey-Beacon College of Wilmington, Delaware. Last year the two collegiate teams broke even in a two-game series.

The Aggies showed plenty of ability in the opener with a lot of quick opening plays and a good shooting average. The "Green and Gold" Team should finish the 1952 season with a better record than last year's if they continue playing this brand of ball. They centered 24

two-pointers during the four quarters of play, compared to 13 for the Wilmington collegians. The Aggies converted 13 out of 23 from the charity-marker and Goldey got 9 out of 25.

"Chiz" Lipari, Stan Caplan, and Hal Tannin hit the double numbers for the Aggies with 16, 12, and 11 respectively, while Jack Phillips with 15, was tops for the visiting team. The Aggies started off with a series of speedy plays that gave them a 6-0 lead in less than two minutes, and a 13-2 lead at the end of the quarter and 30-12 at half-time. "Chiz" Lipari sparkled with his new "self-perfected" jump shot from beyond the foul stripe.

N. A. C. vs. TRENTON STATE

The Aggie five lost to Trenton State Teachers' College on January 11, on the home court by an 84-61 count, and at the same time, lost the services of one of their ace players for the balance of the season.

"Cal" Kidder scored 7 points for the "Green and Gold" quintet before he was carried off the floor with a very unusual injury to his left ankle. He was treated by the college physician and then taken to the Abington Memorial Hospital,

(Continued on page 16)

HIJACKED HUMOR

Compiled by PETE KRUSCH '53

Major Smith has announced a new carrier bird. It is a cross between a carrier pigeon and a woodpecker. Not only does it carry messages to Cadet Lieutenants—it hammers them into their heads. — *Missouri College Farmer*

The wind was blowing very violently on a street corner and a young lady's dress was blown up around her neck. When a man standing nearby began to laugh, she irately said, "I see you are no gentleman."
"No, and I see you are not either," was the reply.

Overheard in a parked car on Turks-head Road.

Aggie, "I told the coach I'd make a good quarterback. There's another completed pass".

Someone says that the honeymoon is over when SHE calls from her twin bed, "Darling, I'm cold," and HE gets up and closes the window.

"Is that girl's dress torn or am I seeing things?"
"Both."

The local politician was making a speech regarding the type of milk which should be supplied to the school children.

"What this town needs," he roared, "is a supply of clean, wholesome milk, and it is up to you voters to take the bull by the horns and demand it . . ."

Fall Fashion note: Young ladies will be wearing the same things in sweaters again this season.

Here's a toast to the girl who steals, lies, and swears — steals into your arms, lies there, and swears she loves you.

"Hey, look at that bunch of cows."

"Not bunch, herd."

"Heard of what?"

"Herd of cows."

"Sure, I've heard of cows."

"I meant a cow herd."

"What do I care if a cow heard? I haven't said anything I'm ashamed of!"

— *The Agrarian*

A Hollywood actress who had been married to a director for three years without a blessed event, got a divorce and married a producer.

It's been said that familiarity often breeds exemptions.

Then there was a girl who wore dresses that kept everyone warm but herself.

Many a man made a monkey out of himself by grabbing the wrong limb.

— *Kansas Agr. Student*

Griff: How did you puncture your tire?

Jack E.: Ran over a milk bottle.

Griff: Didn't you see it?

Jack E.: Naw, the darn kid had it under his coat.

— *Missouri College Farmer*



Quit griping, we got out of finals, didn't we?

Definitions

A preacher: A man who is working to beat hell.

A Camel: A horse that swallowed his saddle.

The awkward age: Too old to cry and too young to swear.

The art of being subtle: Saying what you mean and then getting out of range before it's understood.

— *Missouri College Farmer*

"What's worse than being a bachelor?"
"Being a bachelor's son."

With modern props to call forth cheers, A smart girl meets the test.

If glamour isn't in arrears She can always keep abreast.

She: "Don't you wish you were a barefoot boy again?"

He: "Not me lady, I work on a turkey farm." — *Iowa Agriculturist*

An out of town guest dropped in on newlyweds. "We haven't much room," apologized the host, "but you can sleep in my twin bed." "Is it comfortable?" "Darned if I know."

Same for All

"But, Doc," argued the sailor, "I'm only here for an age exam. I don't have to take off my clothes for that."

"Strip down and get in line," shouted the pharmacist's mate.

The sailor obeyed, but kept on grumbling. The chap in front of him finally turned around and said, "What are you kicking about? I only came here to deliver a telegram." — *The Agrarian*

THE PARROT'S CAGE

(continued from page 10)

business here than yours truly, but before I depart I have five notices:

1. John Toor is still looking for Snuffy.

2. The Junior Class would appreciate any information on who the informer is.

3. Altieri and Gale would like to announce the opening of their tropical gardens — no admission.

4. Someone wants to know how many Charlottes there are in the parrot's life.

5. Bob Jaggard challenges anyone to a beer contest, including Demitroff and Davis combined.

Extra Late Flush: I noticed Frank La Rosa narrowly escaped complete humility by recovering his hat from the Amazon Cheerleaders from Paterson.

Well, Weber's just offered me a cracker, so I'm off.

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OFF-CAMPUS LEARNING

HORT FIELD TRIP

By VINCENT ALTIERI '54

The Sophomore Horticulture Majors had the pleasure of attending the New Jersey Horticultural Society's and the Vegetable Growers Association of America's 77th and 43rd, respectively, annual meetings at Atlantic City.

The group was comprised of Arthur Gale, Russell Plumer, Arthur Poley, Martin Brooks, Morton Levinson, and Vincent Altieri. We arrived at Atlantic City at 2:30 P.M., met professor Purmell and attended the 2:45 P.M. lectures; "Red Banded Leaf Roller," and "Insecticides and Apple finish," by Dr. E. H. Glass.

The Horticultural Society sessions were held in the Claridge Hotel's Trimble Hall and the Vegetable Growers Association sessions were held in the Marlborough-Blenheim Hotel's Wedgewood Room.

Since the Vegetable Growers and Horticultural Society lectures were held at the same time we had to divide our time in order to attend the most important lectures. The lectures were very educational and enjoyed by all. Some of the lectures were "The Chemical Thinning of Apples," by Dr. F. W. Southworth, "Trace Elements and Placement Fertilizers," by Dr. E. R. Purvis; "Summer Miticides and Mite Control," by Dr. B. F. Driggers; "Why Precool Vegetables," by Dr. G. A. Johannessen and "Mechanical Harvesting," by Ernie Munter. We also received educational literature which will help us in our major studies.

Monday evening we attended the evening entertainment program and heard a humorous talk on "Bovine Architecture," by Prof. J. G. Hoyes, of Michigan State College who, incidentally, is an old friend of Mr. Purmell.

We also had the pleasure of meeting the "Vegetable Queen" of Maryland and "National Tomato Queen" of Minnesota (the nicest tomato I've ever seen).

AGRONOMY EXHIBIT

Gerard A. Marini '52

Last "A" Day the Agronomy Seniors exhibited a model farm. The exhibit depicted the principles of soil conservation and proper crop management. It won first prize in its class and also "Best

in Show" of all Agronomy and Horticultural exhibits.

Mr. Blackmon, our major professor, called a meeting of the Agronomy Seniors, (Albert Darpino, Irwin Recht, Selig Bernstein and Gerard Marini) in the early part of November. We were asked to duplicate our exhibit for an exposition which was to be held in a Philadelphia Y.M.H.A.

The biggest difficulty involved in duplicating the exhibit was the availability of green plants which due to the weather conditions at the time were not accessible. But after much searching we acquired sod and various plants and shrubs to represent trees and crops.

We built a portion of the exhibit at the college and planned the phases we attempted to depict. Then we transferred the platform, and all the other materials that were to be used, to Philadelphia.

The exhibit consisted of two hills, one steep and the other a gradual slope. A stream meandered down the steeper and larger slope. Flat pasture, and tillable crop land, including wheat, corn, and tobacco fields and many acres of pasture land were created. Grass was planted along the stream to check overflows. We had contours on one hill to illustrate good soil conservation practices, and also showed how hillsides can be devoted to fruit production by the use of terraces.

A toy farmer worked a tractor in the middle of a field employing the proper method of discing. Grass was also planted between the contours to prevent soil runoff and the eroding of the hillside. The stream ran off into a farm pond to be utilized by the farmer for fighting fires, watering animals, and providing food for the table. We also had a record made explaining all the principles we had employed in setting up the project. Both our exhibit and the Orn. Hort display, a refreshing corner of green, consisting solely of various evergreens and chrysanthemums were appreciated by all viewers.

DAIRY CLUB TRIP

By OSKAR LARSSON '52

On the sunny morning of November 30th the Dairy Club went on a field trip to Lee's Hill Farm, Morristown, New Jersey and Ideal Guernsey Farms, Augusta, New Jersey.

Lee's Hill Farm consists entirely of Brown Swiss cattle under the supervision of Mr. Vernon Hull. The herd comprises 25 cows milked twice a day and 12 cows on test milked three times a day.

Mr. Vernon Hull pointed out two cows that were on test for milk production and fat. Following up the final results, we find that Gypsy Jane produced 30,673 lbs. of milk and 1,358 lbs. fat in 365 days, 3x, to become the national Brown Swiss Milk and Butterfat Champion. Her paternal sister, (related through sire), Royal's Rapture made 31,283 lbs. of milk and 1,378 lbs. fat in 365 days, 3x now becoming current national champion of the breed. Feeding, managing and the general operations were thoroughly explained by Mr. Vernon Hull.

Leaving the farm, we then traveled to Ideal Guernsey Farms located on route 6A, Augusta, New Jersey. We were then taken on a conducted tour of the vast 4,000 acres of Sussex County farm land.

This farm now consists of 800 Guernsey cows milked three times daily. Each man is in charge of milking by hand 15 cows three times daily. We were escorted through the spotless barns, which number quite a few. Each barn has a certain number of cattle, and one man is responsible for his barn; breeding, management, feeding, etc.

On this 4,000 acre farm, we saw the machinery department, tractors, bulldozers, and all other types of necessary farm machinery.

Each department was efficiently organized. There was one barn for freshening cows, one for cattle going to sales, and a bottling plant which had a total production of 80,000 bottles of various sizes daily. Every sanitation precaution is taken to give the consumer high quality milk.

After seeing this farm, we started home, in time for that delicious N.A.C. chow. The large scale operations and progressive techniques employed by these farms impressed us all. This trip truly exemplified the benefits gained from actual observation.

(continued on page 18)

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SPORTS SCENE

(Continued from page 11)

where the injury was looked upon as "very rare". There have been but five similar cases on record at the hospital. A number of ligaments in the ankle were torn in the dislocation. It is a pleasure to report that Cal, his leg in a cast, is now back on the campus.

For the Aggies, "Chiz" Lipari and "Moke" Auslander, with 18 and 15, topped the scoring for the losers while Lou Limato and Fred Wetzell, with 22 and 16, were high for the Teachers from Trenton. The home team just couldn't find the range of the hoops and were puzzled by the Trenton team's full court press and their nicely perfected "fast break". In the second half, Lipari finally found the basket and sank his new shot a few times.

N.A.C. vs. TEMPLE PHARMACY

Showing a big improvement since the Trenton game, Coach Charlie Keys' N.A.C. basketballers defeated the Temple University Pharmacy team on the Louchheim Gymnasium Court, 61-51, to give the Aggies a two and one standing for the season.

By a strange coincidence, all three Aggies score-totals have been 61 in the three games played so far this season. After a first-half, nip-and-tuck struggle, with the halftime score ending 27 to 22, in favor of the "Green and Gold", Coach Keys' proteges opened up a rapid-fire offensive.

The Aggie defensive play broke up scores of Temple shots under the basket, and "Easy Ed" Vansant blocked numerous shots that were headed for "two-pointers". Vansant and Auslander were hawks at the backboards and took almost all of the rebounds on both boards. "Chiz" Lipari again led the team in scoring and again hit twin figures in scoring 18 points, while "Moke" Auslander and Hal Tannin each contributed 11 points toward the 61 total. The game in the second half was as fast as any college game ever played on the Aggie court.

The "Green and Gold" converted 23 out of 33 from the foul marker, including a perfect night by Lipari, with his five field baskets and 8 out of 8 fouls, "Moke" Auslander and Hal Tannin were also perfect foul shooters.

For Temple, Lou Ravin, ace of the Philly quintet, centered the cords for 21

points, including five foul tosses. Dan Jacobs had 8 for the visitors.

The game was fast from start to finish, with 62 fouls called by the veteran referee Abrams and his associate, Snekeder.

N. A. C. vs. KINGS

"Chiz" Lipari sparked the N.A.C. quintet to a 65-63 victory over Kings College of Delaware on the Aggies home court, in a thrilling overtime game that contained some of the best basketball ever played in this vicinity.

This was the third win in four starts for Coach Charlie Keys' charges, but it was entirely a Lipari affair from the start of the second half. Lipari was "off" the whole first half, with his best jump shot rolling around the rim then out. "Chiz" then amassed 33 points, sank the tying basket in regulation time, and tied the score in the overtime session for the Aggies at 63-63. It was a beautiful sight to see the "Green and Gold" fight back after the 16-26 half time score. There were nice plays set up by Hal Tannin and carried out mostly by Lipari and Vansant.

It was substitute Ed Fleming who saved the game for the "Aggies," however. Fleming came dribbling down the floor on the "fast break" and took a one hand stab from the left corner of the court. The ball went high into the air and came down ripping the cords, giving the "Aggies" a 65-63 lead. The whistle blew, ending the extra period, five seconds later.

Vansant, at center for the Aggies, came through with 13 points, 10 of them being made during the first half. Every other member on the N.A.C. five who played also scored. For Kings College, Ruger hit the hoops for 24, while Sink and Bowse came through with 17 points apiece. The visitors showed some outstanding passing, but it was Lipari's "come-back" in the second half that provided some of the finest basketball on record on the N.A.C. court.

WHAT'S NEW WITH ALUMNI

(Continued from page 10)

town Gap, Pa. He sent in some information on a few of his fellow graduates: Herbert Rosenoff, who besides going to CCNY, is working for a former NAC man, Dr. Appleby, who runs a dog and cat hospital in Yonkers, New York. Jack Greenberg, '50 has gone into the

poultry business at Lakewood, N.Y. Sol Resnick and Marvin Klein — who are USDA shipping point inspectors, had as their last assignments the inspection of peanuts at Suffolk, Va.

Morty Ballin, '50, is inspecting food for the Army at Bremerhaven, Germany; his address: Pvt. Morton Ballin US 51109157-Dct. C. 7802 BPE-APO69 c/o Postmaster N.Y. N.Y. Dave Blumenfeld is with the signal corps in Germany. His address: Pfc. David Blumenfeld, 497th Sig. Photo Serv. Co. APO 403 c/o Postmaster N.Y. N.Y.

We received a letter from Michael Sher '26, who sent in his GLEANER subscription along with the note that there is quite a group of Farm School grads in his town, Los Angeles, and that they meet regularly.

Glad to see that Edward Grauskoff, '41 was among the top winners in the National Short Story Contest sponsored by the *Reader's Digest* in Cincinnati, Ohio. The name of the winning story: "Tea for Tamahara". Congratulations!

Don't forget to write in — any news or views will be gratefully accepted — and remember the fellows in the service.

—△—

WHY WORK FOR A LIVING?

(Continued from page 6)

palatable. Most of these nuts are high sources of oil suitable for cooking.

Of the starchy foods, perhaps the most common is the broad-leaved arrowhead which may be found in nearly any marshy location. The roots of this plant supply tubers as large as hens' eggs, which are almost identical to potatoes when they have been boiled or roasted and have been used as such very frequently. The roots of the common cat-tail are also an excellent substitute for potatoes. If marshy land is not available another fine source of starch is the groundnut or wild bean. This plant truly looks like a lima bean plant which is very weak and may be found in nearly all rich woodlands. Tubers which vary from the size of a cherry up to a large egg are produced in numbers up to forty by stems underground. The tubers not only look like potatoes but when prepared in a similar fashion taste very similar. Since it grows in loose forest soil it is easy to harvest this food merely by pulling up the plant. If the plant is in fruit the seeds may even be cooked like peas.

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N. A. C. . . . Past, Present, Future (Continued from page 4)

to national recognition and to enlarge upon our current physical capacity so that a larger student body may be enrolled. These steps include:

1. The chartering by the State Board of Education of an Agricultural Education course, which would make us the only non-land grant school in the country offering this major course.

2. Accreditation by the Middle States Association of Colleges and Secondary Schools so that graduates of the National Agricultural College will be accepted for graduate work without any difficulty.

3. Establishment of the Edwin B. Elson Hall group, which will include two wings, one of which is now housing students, a central building to house fifty students as well as the sorely needed reading rooms, club rooms and locker rooms for the entire student body.

4. Erection of a new auditorium and Classroom Building, the auditorium having a seating capacity of 600 persons plus the facility of using it as a gymnasium for intramural and intercollegiate sports.

5. Establishment of more extensive food industry facilities to supplement our new, modern cannery. Accomplishment of this step will offer marvelous opportunity to those students majoring in the newly approved Food Industry Course for practical experience prior to graduation.

6. Modernization of the Dairy and Animal Husbandry Departments and the building of a livestock pavilion for livestock courses, including a judging arena seating three hundred persons.

7. A more extensive landscaping job on the campus to include the area extending from the chemistry laboratories to the railroad and the development of the area extending from the Segal Hall parking lot to the Alumni House for athletic facilities.

8. The extension of our present farm machinery building in the rear of Ullman Hall to provide two thousand square feet of additional floor space. This space is needed to accommodate additional shop equipment and farm machinery required in our courses in Farm Shop, Farm Machinery and Farm Structures.

9. The construction of a wing to

the library, sufficient to house ten thousand volumes and to provide reading space for fifty students. The present library contains eleven thousand books in addition to the ten thousand books contained in the Joseph Krauskopf Collection. The enlarging of our library facilities is on the "most needed projects" list.

From Rabbi Krauskopf's modest beginning, we now have an accredited college, some two hundred students, a faculty of twenty-eight, over sixty buildings, a thousand acres of farm land, a beautiful campus and a net worth of over a million and a half dollars.

The current expansion program calls for the enlargement of the student body to five hundred students by 1955 and only through the cooperation of the students, the faculty and administration, the Board of Trustees, the Alumni groups and various friends of the college will this be accomplished. Let us all roll up our sleeves and help create a larger and greater N.A.C.

—△— OFF-CAMPUS LEARNING (continued from page 14)

ORN. HORT TRIP

By RICHARD ILSEMAN '52

In December, the Senior Plant Pathology class, under the guidance of Dr. Paul Bowen, visited the Bureau of Plant Industry, at Beltsville, Maryland.

The first department visited was the Mycology section. This department consists of a collection of five hundred thousand specimens of twenty-five thousand species of fungi. Collections of fungi have been contributed by private collectors in all parts of the world, but much of this collection has been gathered by agents working directly with the Mycology Department.

The job of the Plant Survey Department is to locate new diseases, determine their severity and plan control measures. Information is gathered by pathologists, farmers, county agents and workers from the Plant Survey Department at Beltsville. When information is collected, tentative forecasts of the epidemic are sent throughout the country and preventative measures can begin immediately. To keep plant pathologists and other agriculturalists informed on the latest developments, a publication is printed called the *Plant Disease Reporter*. This publication is printed each month, and distributed to county agents, agricultural colleges, and plant pathologists.

During our tour of the greenhouses, we were shown experiments with mosaic of tomatoes and work with new varieties of rust-resistant varieties of beans. This rust is a serious disease of bean growing regions in the far West and South.

Experiments with bacterial wilt of carnations were being conducted in the floricultural greenhouses. This disease can be identified by the greyish-green foliage which becomes yellow and eventually dies. When these symptoms are discovered, the infected plants should be rogued from the beds. The best preventative measure of bacterial wilt is through steam sterilization of the soil. Other pathological work with ornamentals was being conducted with powdery mildew of roses and rots on corms of gladioli.

The United States Turf Association for the last few years has been conducting extensive experiments with several new varieties of grasses for golf courses in this country. Merion Blue Grass, and U-27 Bermuda have proven to be highly successful and should prove to be of importance in the future.

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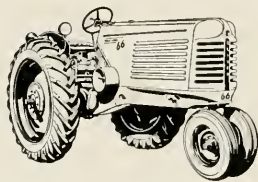
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